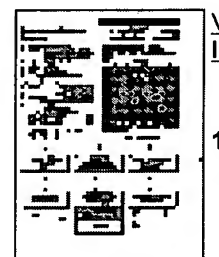


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Title: JP60077350A2: SEALING MATERIAL FOR ALKALINE BATTERY
Derwent Title: Sealing material for alkali battery - having styrene-butadiene block copolymer mixed with bromo:asphalt NoAbstract Dwg 1/1 [\[Derwent Record\]](#)
Country: JP Japan
Kind: A
Inventor: SAKATA YASUHEI;
 ISHIHARA KOJI;
 ABE TAKASHI;
Assignee: MATSUSHITA ELECTRIC IND CO LTD
[News, Profiles, Stocks and More about this company](#)
Published / Filed: 1985-05-01 / 1983-10-03
Application Number: JP1983000185256
IPC Code: H01M 2/08;
Priority Number: 1983-10-03 JP1983000185256





Abstract: PURPOSE: To obtain an alkali-proof sealing material having a great sealing effect against external load by adding a styrene-butadiene block copolymer to blown asphalt.
 CONSTITUTION: After a battery lid 3 is attached to a battery container 1, a sealing material 6 is packed between the container 1 and the lid 3 to bind them together by sealing. Either a mixture prepared by combining blown asphalt with a styrene-butadiene block copolymer having a higher softening point than blown asphalt or a mixture prepared by adding a wax to the above mixture is used as the sealing material 6. The styrene-butadiene block copolymer works as a hot-melt-type adhesive. Therefore the ductility of the sealing material 6 increases and an increased resistance to external load is achieved as the percentage of the copolymer in the sealing material increases. However, in order to avoid difficulty in sealing resulting from increased viscosity of the sealing material 6 caused when it is molten at around 180°C, the proper proportion of the copolymer is 5~35wt% of the sealing material 6. Addition of a wax increases the compatibility between the above adhesive and blown asphalt and is specially advantageous when a increased amount of the adhesive is used.

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Family: None

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Forward References: [Go to Result Set: Forward references \(2\)](#)

PDF	Patent	Pub.Date	Inventor	Assignee	Title
	US6605383	2003-08-12	Wu; James Xixian	Eveready Battery Company, Inc.	Alkaline electrochemical cell having adhesive closure
	US6586912	2003-07-01	Tsukamoto; Hisashi	Quallion LLC	Method and apparatus for amplitude limiting battery temperature spikes

Other Abstract Info: None



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(19)

(11) Publication number: **60077**

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PATENT ABSTRACTS OF JAPAN(21) Application number: **58185256**(51) Intl. Cl.: **H01M 2/08**(22) Application date: **03.10.83**

(30) Priority:	(71) Applicant: MATSUSHITA ELECTRIC IN: LTD
(43) Date of application publication: 01.05.85	(72) Inventor: SAKATA YASUHEI ISHIHARA KOJI ABE TAKASHI
(84) Designated contracting states:	(74) Representative:

**(54) SEALING MATERIAL
FOR ALKALINE BATTERY**

(57) Abstract:

PURPOSE: To obtain an alkali-proof sealing material having a great sealing effect against external load by adding a styrene-butadiene block copolymer to blown asphalt.

CONSTITUTION: After a battery lid 3 is attached to a battery container 1, a sealing material 6 is packed between the container 1 and the lid 3 to bind them together by sealing. Either a mixture prepared by combining blown asphalt with a styrene-butadiene block copolymer having a higher softening point than blown asphalt or a mixture prepared by adding a wax to the above mixture is used as the sealing material 6. The styrene-butadiene block copolymer works as a hot- melt-type adhesive. Therefore the ductility of the sealing material 6 increases and an increased resistance to texternal load is achieved as the percentage of the

copolymer in the sealing material increases. However, in order to avoid difficulty in sealing resulting from increased viscosity of the sealing material 6 caused when it is molten at around 180°C, the proper proportion of the copolymer is 5 ~ 35wt% of the sealing material 6. Addition of a wax increases the compatibility between the above adhesive and blown asphalt and is specially advantageous when a increased amount of the adhesive is used.

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